

What is claimed is:

- Sub B1
- (1) A denitrifying composition for microbially removing nitrates nitrogen comprising particles of calcium carbonate dispersed in sulfur.
- (2) A denitrifying composition as described in claim 1 wherein particles of calcium carbonate and those of a substance possessing cation exchange capacity are dispersed in sulfur.
- (3) A denitrifying composition as described in claim 1 wherein particles of calcium carbonate and those of a microporous substance are dispersed in sulfur.
- (4) A denitrifying composition as described in any one of claims 1 to 3 wherein the ratio by weight of sulfur to calcium carbonate is 1:0.3 to 1:3.
- (5) A denitrifying composition as described in claim 3 wherein 10 parts by weight of sulfur coexists with 10-15 parts by weight of calcium carbonate and 1-3 parts by weight of a microporous substance.
- Sub A2
- (6) A denitrifying composition as described in any one of claims 1 to 5 wherein said sulfur is amorphous sulfur.
- Sub B1
- (7) A denitrifying composition as described in claim 1 wherein the shape of said composition is granular, massive or molded.
- Sub A3
- (8) A denitrifying material comprising a mixture of a denitrifying composition as described in any one of claims 1 to 7 and mineral fibers.
- Sub B1
- (9) A denitrifying material as described in claim 8 wherein said mineral fibers are rock wool.
- Sub D1
- (10) A process for producing a denitrifying composition for microbially removing nitrates nitrogen which comprises heating powder of calcium carbonate thereby melting the sulfur and dispersing the powder of calcium

carbonate in the liquid sulfur and solidifying the dispersion by rapid cooling.

(11) A process for producing a denitrifying composition as described in claim 10 which comprises mixing 10 parts by weight of sulfur, 10-15 parts by weight of powder of calcium carbonate and 1-3 parts by weight of powder of a microporous substance, melting the sulfur, dispersing the powders of calcium carbonate and the microporous substance in liquid sulfur and solidifying the dispersion by rapid cooling.

(12) A process for producing a denitrifying composition as described in claim 10 or 11 wherein the powder of calcium carbonate exhibits a specific surface area of 2,000-5,000 cm²/g by air permeability determination.

(13) A process for producing a denitrifying composition as described in claim 11 wherein the microporous substance is a mineral product such as kieselguhr or a carbonaceous materials such as charcoal.

(14) A process for producing a denitrifying composition as described in claim 10 or 11 which comprises crushing or molding the solid obtained by rapid cooling into a massive, granular or molded form.